

CLAIMS

What we claim is:

1. A polypropylene tape fiber comprising at least 10 ppm of a nucleator compound and exhibiting a tensile strength of at least 3 grams/denier.
2. The polypropylene tape fiber of Claim 1 wherein said nucleator compound is selected from the group consisting of p-MDBS, 3,4-DMDBS, 2,4,5-TMDBS, DBS, sodium benzoate, NA-11, NA-21, and any mixtures thereof.
3. The polypropylene tape fiber of Claim 2 wherein said nucleating agent is p-MDBS.
4. A fabric article comprising at least polypropylene tape fiber as defined in Claim 1.
5. A fabric article comprising at least polypropylene tape fiber as defined in Claim 2.
6. A fabric article comprising at least polypropylene tape fiber as defined in Claim 3.
7. The fabric article of Claim 4 wherein said article is a carpet backing.
8. The fabric article of Claim 5 wherein said article is a carpet backing.

9. The fabric article of Claim 6 wherein said article is a carpet backing.
10. A polypropylene tape fiber comprising at least 10 ppm of a nucleator compound and exhibiting a shrinkage rate after exposure to 150°C hot air of less than 2%, and a tensile strength of greater than 2.5 grams/denier.
11. The polypropylene tape fiber of Claim 10 wherein said nucleator compound is selected from the group consisting of p-MDBS, 3,4-DMDBS, 2,4,5-TMDBS, DBS, sodium benzoate, NA-11, NA-21, and any mixtures thereof.
12. The polypropylene tape fiber of Claim 11 wherein said nucleator compound is p-MDBS.
13. A fabric article comprising at least polypropylene tape fiber as defined in Claim 10.
14. A fabric article comprising at least polypropylene tape fiber as defined in Claim 11.
15. A fabric article comprising at least polypropylene tape fiber as defined in Claim 12.

16. The fabric article of Claim 13 wherein said article is a carpet backing.
17. The fabric article of Claim 14 wherein said article is a carpet backing.
18. The fabric article of Claim 15 wherein said article is a carpet backing.
19. A polypropylene tape fiber comprising at least 10 ppm of a nucleator compound and exhibiting an x-ray scattering pattern such that the center of the scattering peak is at 0.4 degrees or lower.
20. The polypropylene tape fiber of Claim 19 wherein said nucleator compound is selected from the group consisting of p-MDBS, 3,4-DMDBS, 2,4,5-TMDBS, DBS, sodium benzoate, NA-11, NA-21, and any mixtures thereof.
21. The polypropylene tape fiber of Claim 20 wherein said nucleator compound is p-MDBS.
22. A fabric article comprising at least polypropylene tape fiber as defined in Claim 19.

23. A fabric article comprising at least polypropylene tape fiber as defined in Claim

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24. A fabric article comprising at least polypropylene tape fiber as defined in Claim

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25. The fabric article of Claim 22 wherein said article is a carpet backing.

26. The fabric article of Claim 23 wherein said article is a carpet backing.

27. The fabric article of Claim 24 wherein said article is a carpet backing.

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